

Comparisons of Job Characteristics

Focus Occupation: **Epidemiologists (19-1041)**

Associated Occupation: **Biological Scientists, All Other (19-1029)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Epidemiologists (19-1041)

Associated Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Biology	3.7	24.4	16.5	<<	Extensive education and/or training may be required
English Language	11.2	18.2	17.6	0	Current knowledge level may be sufficient
Chemistry	4.8	16.4	6.3	<<	Extensive education and/or training may be required
Mathematics	9.2	14.7	18.7	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Epidemiologists (19-1041)

Associated Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	18.5	16.7	<	A higher skill level may be required
Writing	9.2	16.2	14.3	<	A higher skill level may be required
Science	4.5	16.1	18.2	>	Skill level is likely sufficient
Critical Thinking	10.8	15.7	14.6	0	Current skill level may be sufficient
Active Learning	8.7	15.0	13.0	<	A higher skill level may be required
Judgment and Decision Making	9.4	13.2	13.9	0	Current skill level may be sufficient
Complex Problem Solving	9.1	13.1	13.9	0	Current skill level may be sufficient
Mathematics	6.2	12.6	11.0	<	A higher skill level may be required
Learning Strategies	7.2	12.2	9.6	<	A higher skill level may be required

Systems Analysis	6.5	11.0	11.8	0	Current skill level may be sufficient
Systems Evaluation	6.4	10.5	11.5	0	Current skill level may be sufficient
Management of Material Resources	3.7	6.6	4.5	<<	Extensive development of skills in this area may be required
Programming	2.2	5.1	1.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Epidemiologists (19-1041)
Associated Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	18.5	16.0	<	Some improvement in abilities may be required
Oral Comprehension	12.5	17.9	16.4	0	Current ability level may be sufficient
Written Expression	9.8	17.9	15.0	<	Some improvement in abilities may be required
Oral Expression	12.4	17.1	15.7	0	Current ability level may be sufficient
Inductive Reasoning	10.2	16.1	15.2	0	Current ability level may be sufficient
Deductive Reasoning	10.6	15.6	14.6	0	Current ability level may be sufficient
Problem Sensitivity	11.1	14.4	16.2	>	Current ability level is likely sufficient
Near Vision	11.1	13.9	11.6	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	13.3	11.5	<	Some improvement in abilities may be required
Category Flexibility	9.0	13.2	12.2	0	Current ability level may be sufficient
Number Facility	6.3	11.8	11.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Epidemiologists (19-1041)
Associated Occupation: Biological Scientists, All Other (19-1029)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.